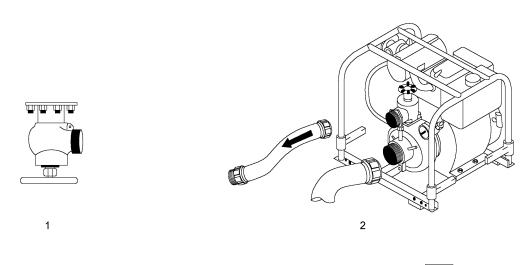
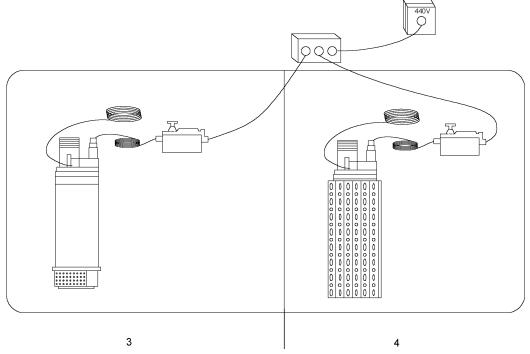
DAMAGE CONTROL LAYOUT SKETCHES

SECTION 4 - DEWATERING EVOLUTION

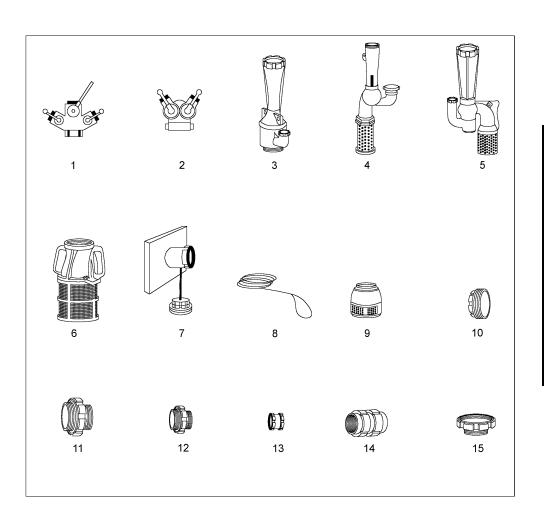
SKETCH	TITLE OF SKETCH	SHEET
NO.		NO.
001	Dewatering Equipment (Sheet 1 of 3)	4-2
	Dewatering Equipment (Sheet 2 of 3)	4-3
	Dewatering Equipment (Sheet 3 of 3)	4-4
002	Using 1-1/2" Eductor with or without Strainer	4-5
003	Using 2-1/2" Eductor or Peri Jet with or without Foot Valve Actuating from 2-1/2" Fireplug or P100 Pump	4-6
004	Suction Lifts Under 20 Feet	4-7
005	Using 1-1/2" Eductor and Peri Jet Eductor for Lifts Over 20 Feet	4-8
006	Using P-100 Pump and Eductor Pumping Contaminated Space	4-9
007	Using 1-1/2" Eductor Connected to a Standpipe	4-10
800	Using Peri Jet Eductor and 1-1/2" Fireplug	4-11
009	Using P-100 to Actuate Both the 1-1/2" Eductor and the Foot Valve Strainer for 10 Ft. Suction Lift	4-12
010	Using Both Peri Jet Eductor or 1-1/2" Eductor	4-13
011	Using Peri Jet Eductor Supplied by 2-1/2" and 1-1/2" or 1-3/4" Hoses (Increased Capacity 20% or More)	4-14
012	20 Foot-Plus Suction Lift Using Three P-100 Pumps in Tandem	4-15
013	Using P-100 Pump and 1-1/2" Eductor	4-16
014	Using Submersible Pumps Single or in Tandem- More than 50 Ft. Suction Lift	4-17
015	Using Submersible Pump - Up to 50 Ft. Suction Lift	4-18
016	Using Submersible Pump to Provide Actuating Water to Peri Jet Eductor	4-19
017	Electric Submersible Pump Discharge Actuating One or Two 1-1/2" S-Type Eductors and Corresponding Ram	4-20
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019	Dewatering Compartments Using Two P-100 Pumps in Tandem Actuating Eductor in Adjacent Space (Sheet 1	4-22
	of 2)	
	Dewatering Compartments Using Two P-100 Pumps in Tandem Actuating Eductor in Adjacent Space (Sheet 2	4-23
	of 2)	



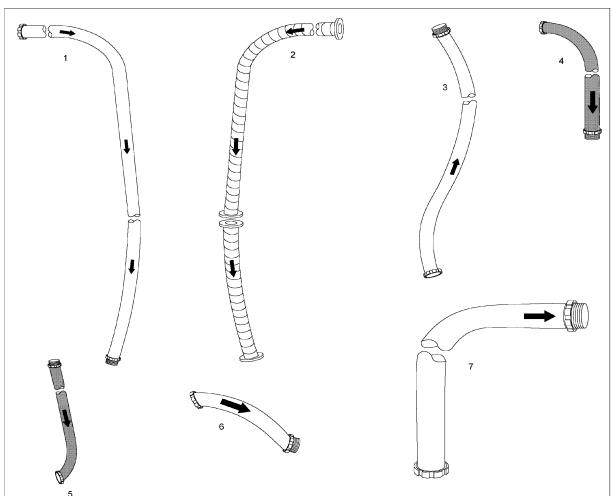


I.	TEM	EQUIPMENT
	1	FIREPLUG
	2	P-100 PUMP
	3	SUBMERSIBLE PUMP W/O STRAINER
	4	SUBMERSIBLE PUMP WITH STRAINER

DEWATERING EVOLUTION - SKETCH #001 Dewatering Equipment (Sheet 1 of 3)

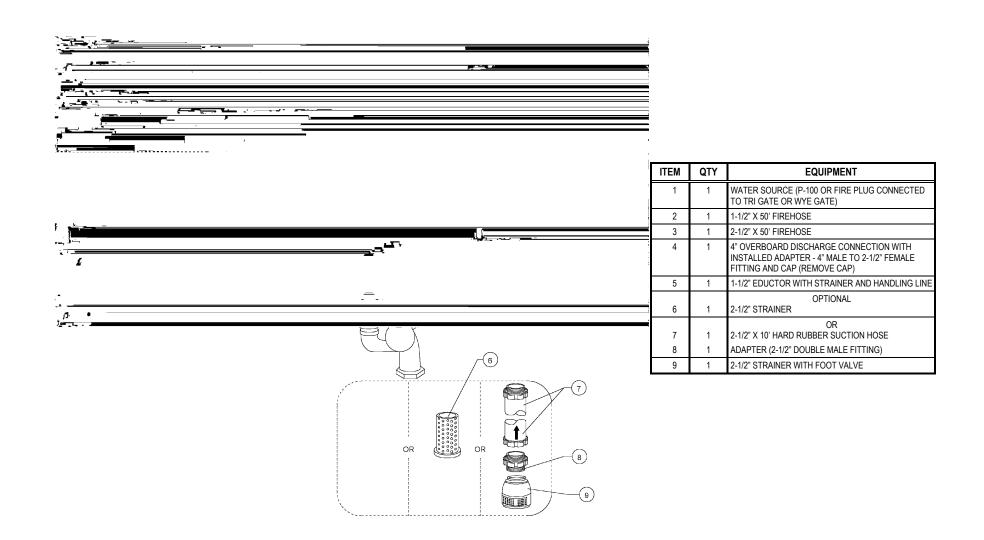


ITEM	EQUIPMENT		
1	TRI GATE		
2	WYE GATE		
3	PERI JET EDUCTORT		
4	1-1/2" EDUCTOR		
5	S-TYPE EDUCTOR		
6	FOOT VALVE WITH STRAINER		
7	OVERBOARD DISCHARGE		
8	TENDING LINE		
9	FOOT VALVE STRAINER (SUB PUMP)		
10	REDUCER 3" FEMALE – 4" MALE		
11	ADAPTER 4" MALE – 3" MALE		
12	ADAPTER 2-1/2" MALE – 1-1/2" MALE		
13	ADAPTER 1-1/2" FEMALE – 1-1/2" FEMALE		
14	ADAPTER 3" – 2-1/2" DOUBLE FEMALE		
15	REDUCER 4" FEMALE – 3" MALE		

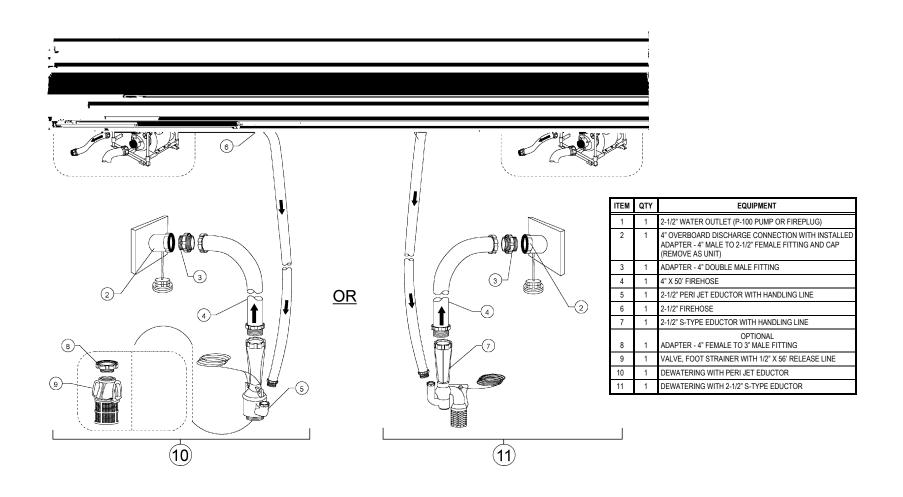


ITEM	EQUIPMENT
1	HOSE 2-1/2" X 50'
2	P-100 EXHAUST HOSE 2" X 10' (2 EACH) WITH FLANGED ADAPTERS
3	HOSE 1-1/2" X 50' OR 1-3/4" X 50'
4	HARD RUBBER HOSE 3" X 10'
5	HARD RUBBER HOSE 2-1/2" X 10'
6	HOSE JUMPER 2-1/2" X 18"
7	HOSE 4" X 50'

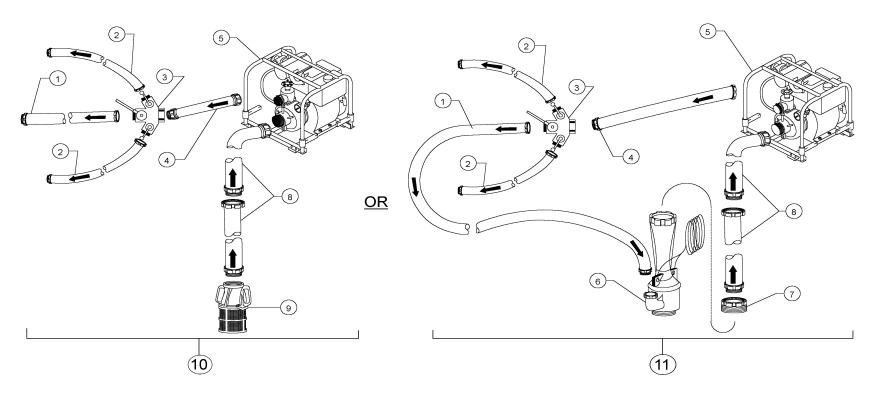
DEWATERING EVOLUTION - SKETCH #001 Dewatering Equipment (Sheet 3 of 3)



DEWATERING EVOLUTION - SKETCH #002 Using 1-1/2" Eductor with or without Strainer

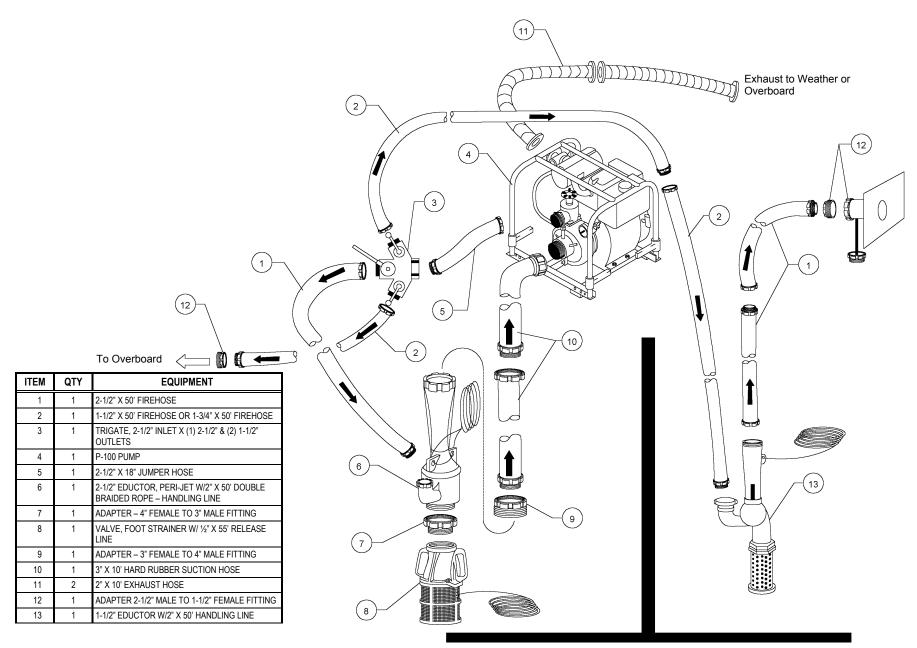


DEWATERING EVOLUTION - SKETCH #003
Using 2-1/2" Eductor or Peri Jet with or without Foot Valve Actuating from 2-1/2" Fireplug or P-100 Pump

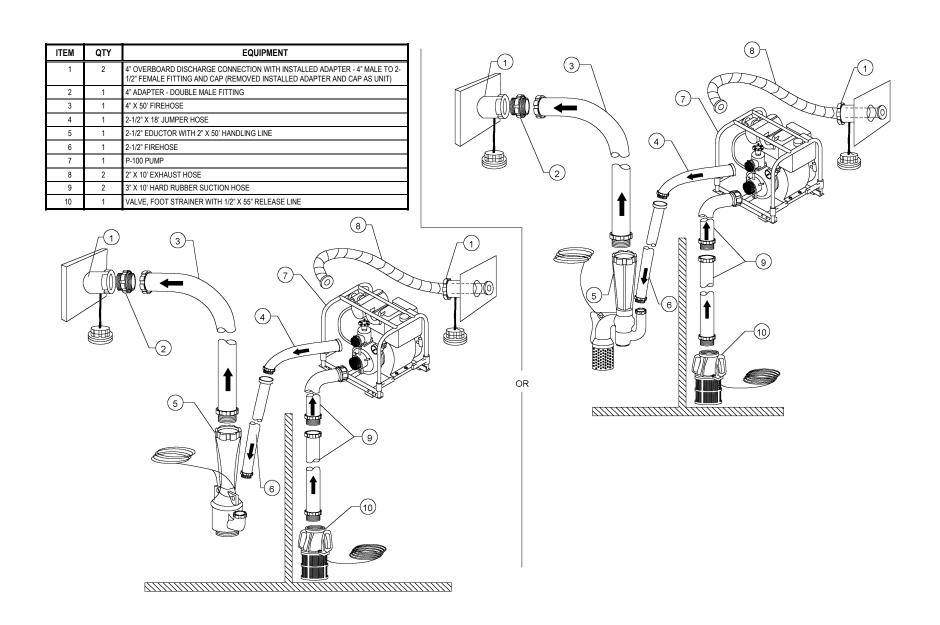


ITEM	QTY	EQUIPMENT
1	1	2-1/2" X 50' FIREHOSE
2	2	1-1/2" X 50' FIREHOSE OR 1-3/4" X 50' FIREHOSE
3	1	TRIGATE, 2-1/2" INLET X (1) 2-1/2" & (2) 1-1/2" OUTLETS
4	1	2-1/2" X 18" JUMPER HOSE
5	1	P-100 PUMP
6	1	2-1/2" EDUCTOR, PERI JET WITH 2" X 50' HANDLING LINE
7	1	ADAPTER - 3" FEMALE TO 4" MALE FITTING
8	NOTE 1	3" X 10' HARD RUBBER SUCTION HOSE
9	1	FOOT VALVE/STRAINER
10	1	DEWATERING WITH P-100 PUMP
11	1	DEWATERING WITH COMBINATION OF EDUCTOR AND P-100 PUMP
NOTE 1: THREE OR MORE LENGTHS OF SUCTION HOSE REQUIRED FOR LIFTS OVER 20'		

DEWATERING EVOLUTION - SKETCH #004 Suction Lifts Under 20 Feet

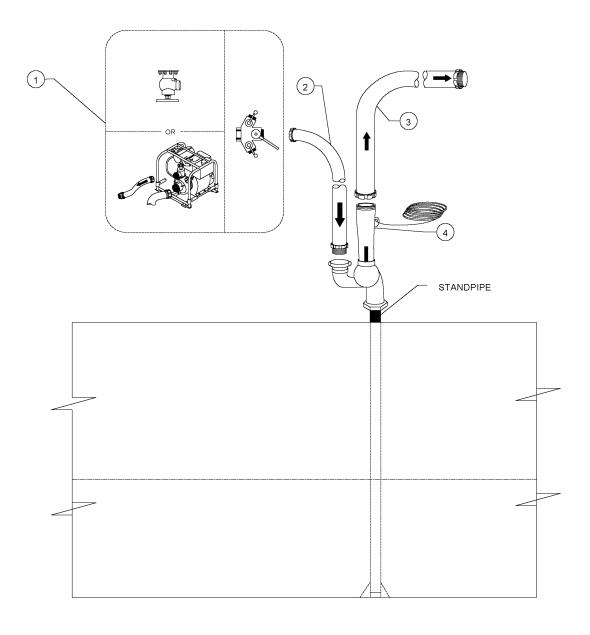


DEWATERING EVOLUTION - SKETCH #005
Using 1-1/2" Eductor and Peri Jet Eductor for Lifts Over 20 Feet

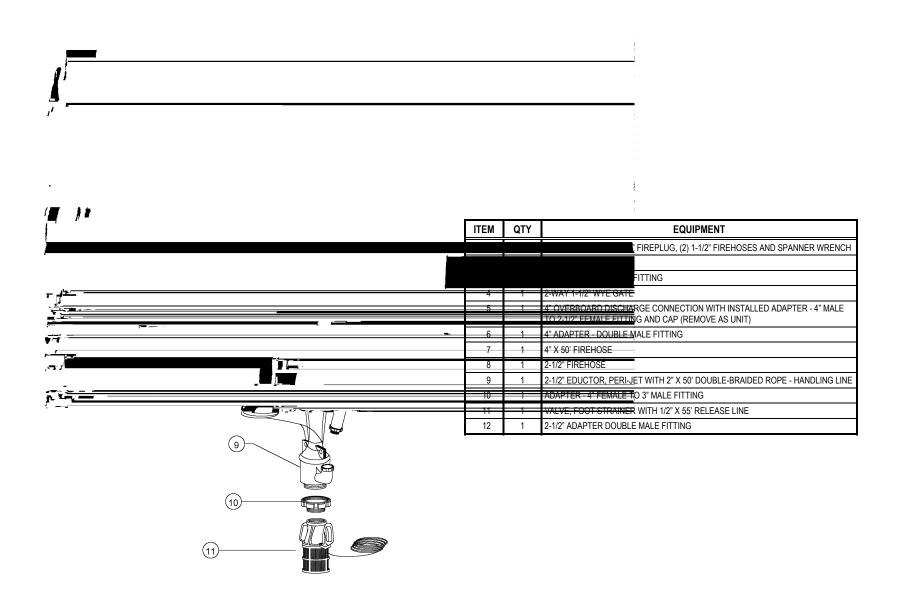


DEWATERING EVOLUTION - SKETCH #006
Using P-100 Pump and Eductor Pumping Contaminated Space

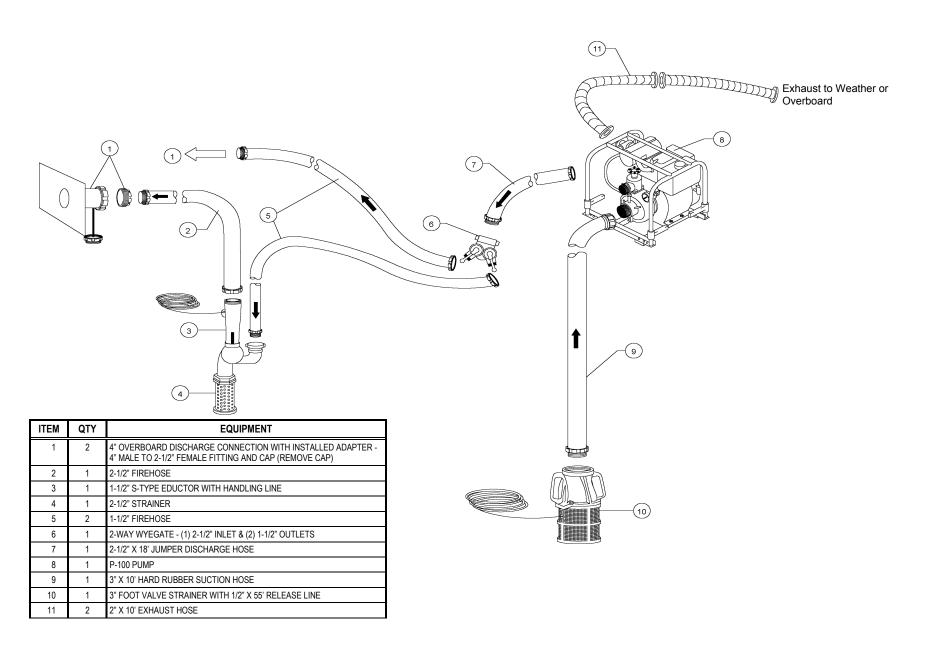
ITEM	QTY	EQUIPMENT
1	1	WATER SOURCE (FIREPLUG, P-100 CONNECT TO TRIGATE
2	1	1-1/2" X 50' FIREHOSE
3	1	2-1/2" X 50' FIREHOSE
4	1	1-1/2" EDUCTOR WITH HANDLING LINE (REMOVE STRAINER FROM 1-1/2" EDUCTOR)



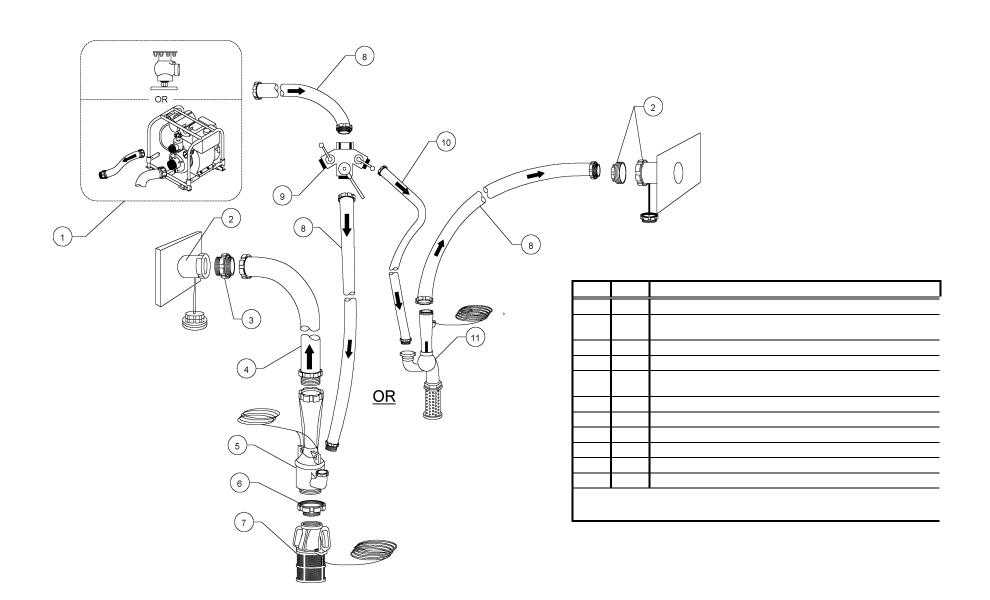
DEWATERING EVOLUTION - SKETCH #007 Using 1-1/2" Eductor Connected to a Standpipe

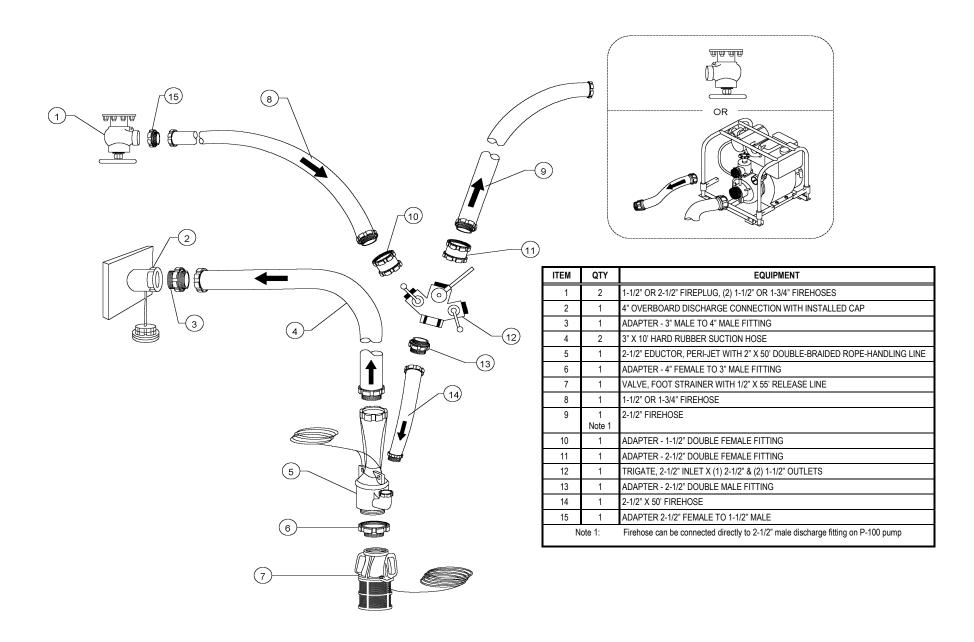


DEWATERING EVOLUTION - SKETCH #008 Using Peri Jet Eductor and 1-1/2" Fireplug

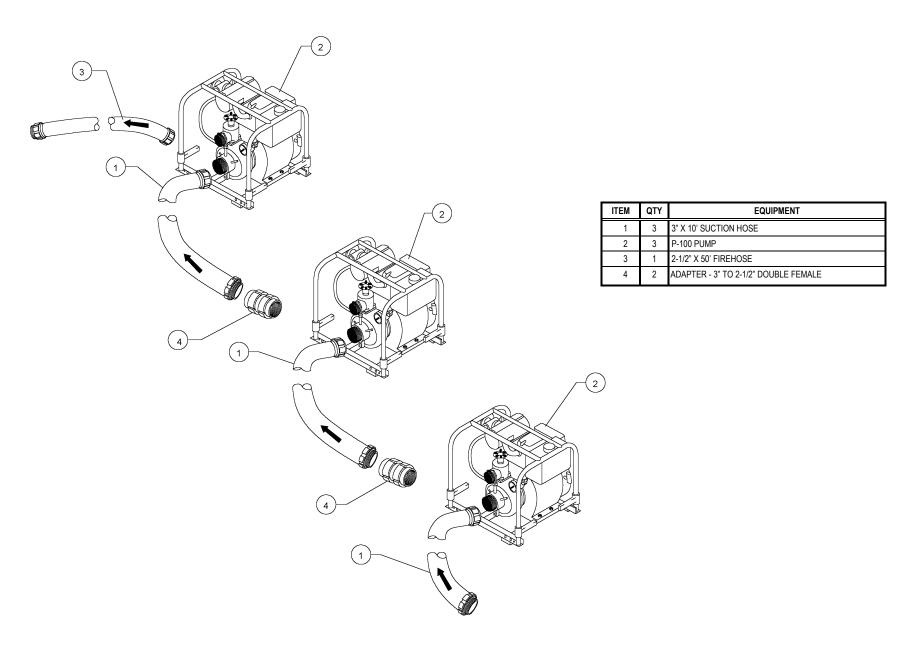


DEWATERING EVOLUTION - SKETCH #009
Using P-100 to Actuate Both the 1-1/2" Eductor and the Foot Valve Strainer for 10 Ft. Suction Lift

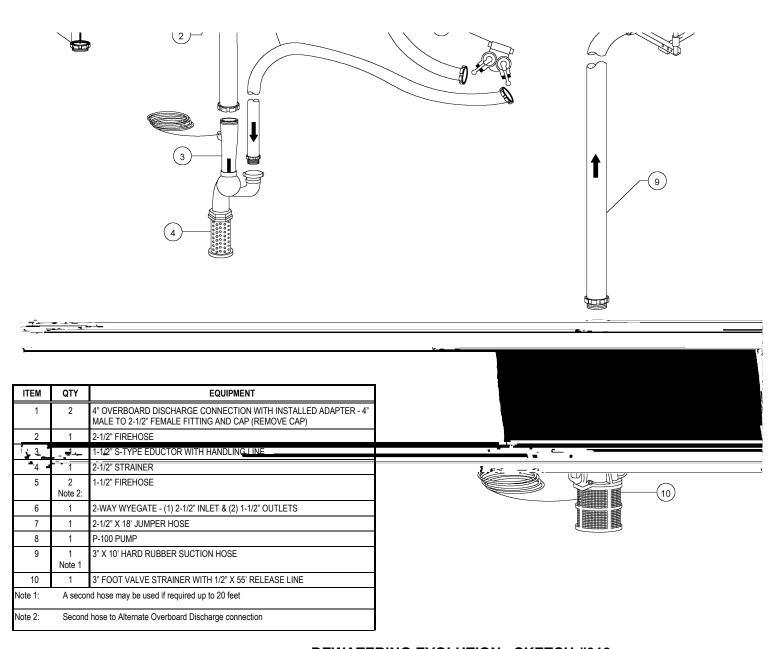




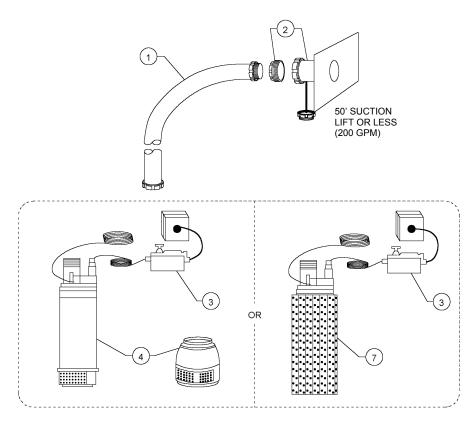
DEWATERING EVOLUTION - SKETCH #011
Using Peri Jet Eductor Supplied by 2-1/2" and 1-1/2" or 1-3/4" Hoses (Increased Capacity 20% or More)

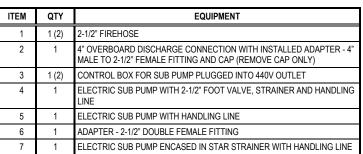


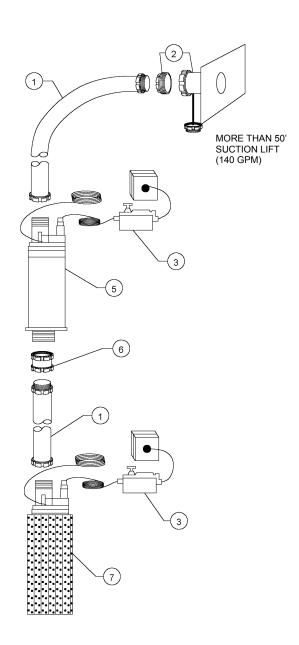
DEWATERING EVOLUTION - SKETCH #012 20 Foot-Plus Suction Lift Using Three P-100 Pumps in Tandem



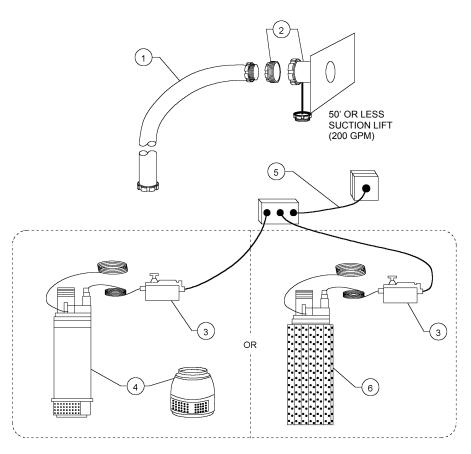
DEWATERING EVOLUTION - SKETCH #013 Using P-100 Pump and 1-1/2" Eductor



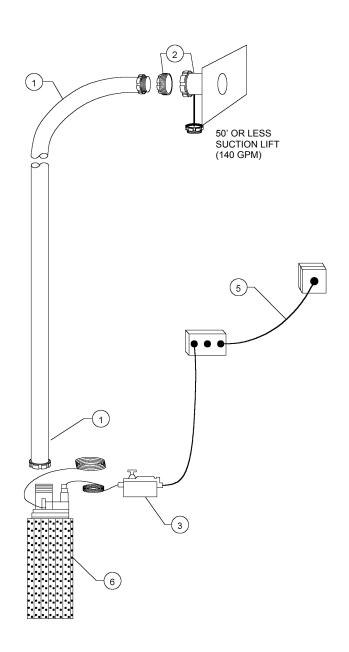




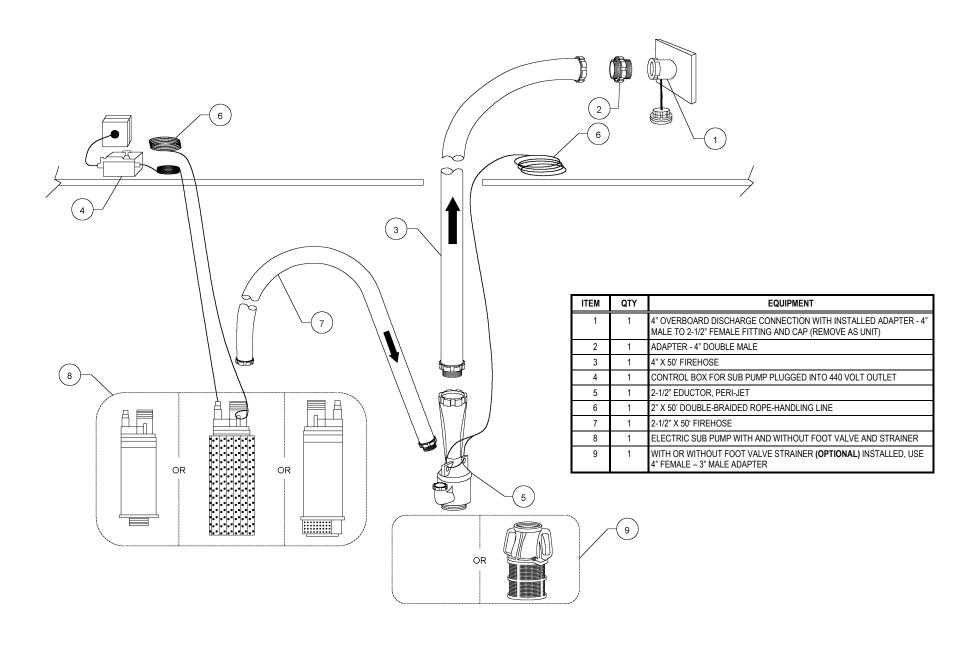
DEWATERING EVOLUTION - SKETCH #014
Using Submersible Pumps Single or in Tandem- More than 50 Ft. Suction Lift



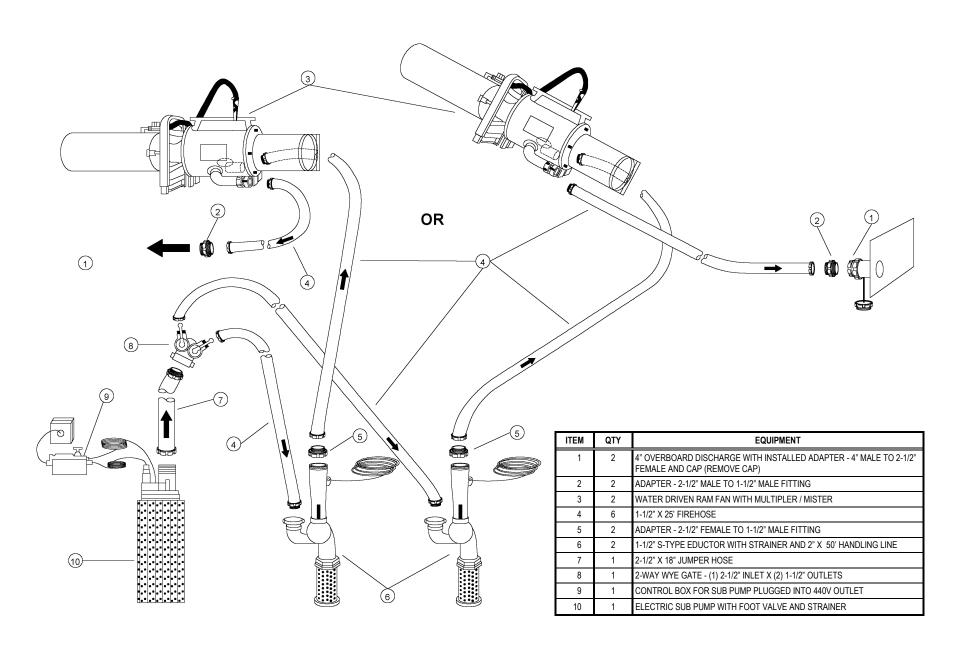
ITEM	QTY	EQUIPMENT
1	1(2)	2-1/2" FIREHOSE
2	1	4" OVERBOARD DISCHARGE CONNECTION WITH INSTALLED ADAPTER - 4" MALE TO 2-1/2" FEMALE FITTING AND CAP (REMOVE CAP ONLY)
3	1(2)	CONTROL BOX FOR SUB PUMP PLUGGED INTO AN OUTLET BOW AND 440V OUTLET
4	1	ELECTRIC SUB PUMP WITH 2-1/2" FOOT VALVE STRAINER AND HANDLING LINE
5	1	440V EXTENSION CABLE
6	1	ELECTRIC SUB PUMP WITH HANDLING LINE



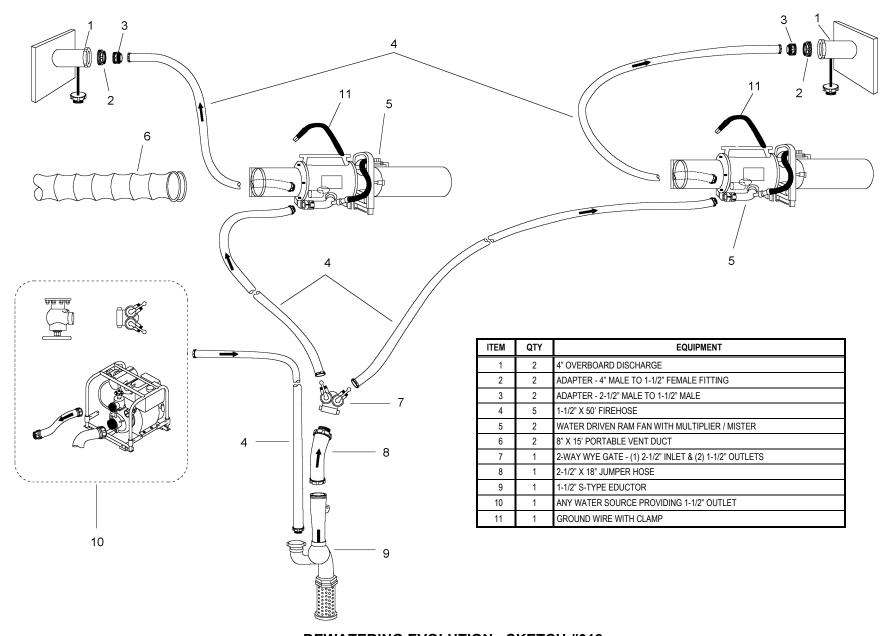
DEWATERING EVOLUTION - SKETCH #015 Using Submersible Pump - Up to 50 Ft. Suction Lift



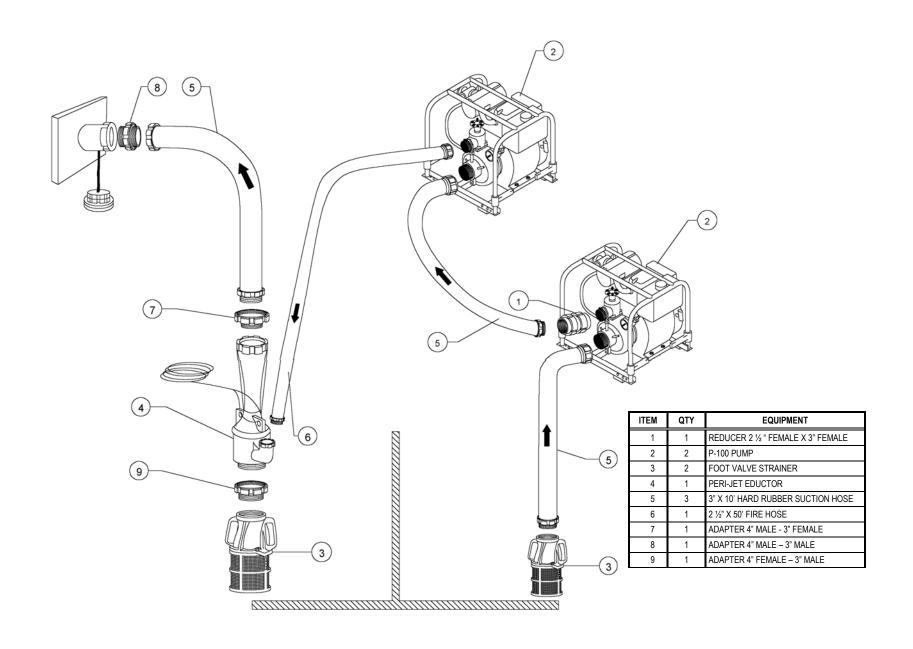
DEWATERING EVOLUTION - SKETCH #016
Using Submersible Pump to Provide Actuating Water to Peri Jet Eductor



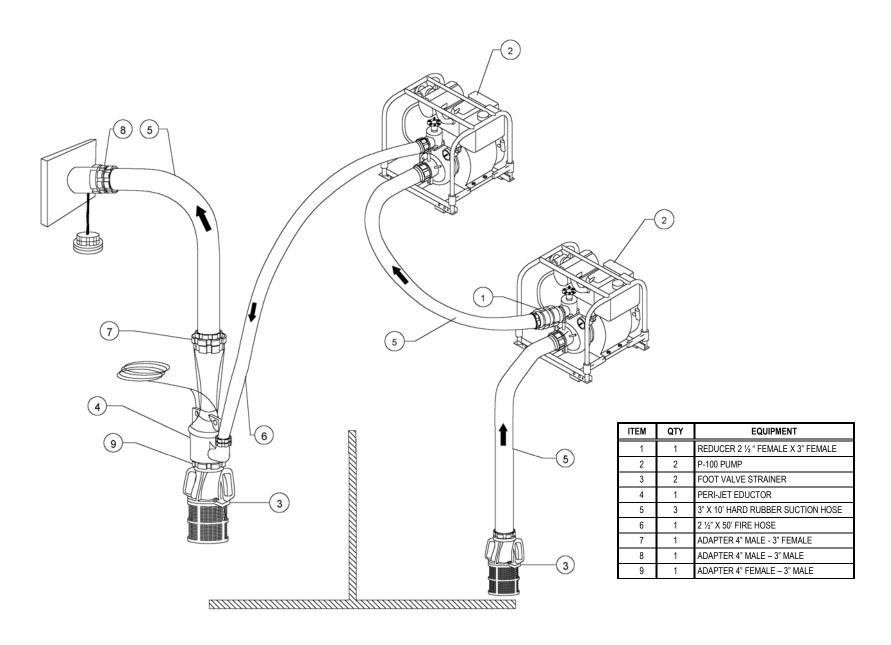
DEWATERING EVOLUTION - SKETCH #017
Electric Submersible Pump Discharge Actuating One or Two 1-1/2" S-Type Eductors and Corresponding Ram Fans



DEWATERING EVOLUTION - SKETCH #018
1-1/2" S-Type Eductor Providing Actuating Water to Two Water Driven Ram Fans for Cooling/Desmoking



DEWATERING EVOLUTION - SKETCH #019 (SHEET 1 OF 2)
Dewatering Compartments Using Two P-100 Pumps in Tandem Actuating Eductor in Adjacent Space



DEWATERING EVOLUTION - SKETCH #019 (SHEET 2 OF 2)
Dewatering Compartments Using Two P-100 Pumps with Connections made in Tandem Actuating Eductor in Adjacent Space